

## Cudy FS1018PS1

# Cudy FS1018PS1 16 Port PoE+ Switch User Manual

Model: FS1018PS1

## PRODUCT OVERVIEW

The Cudy FS1018PS1 is a high-performance 16-port PoE+ switch designed for reliable network expansion. It features 16 10/100Mbps PoE+ ports, 2 Gigabit Ethernet uplink ports, and 1 SFP port, making it ideal for powering and connecting various network devices such as IP cameras, wireless access points, and IP phones. This switch supports the IEEE 802.3af/at standard, automatically detecting and supplying power to compliant Powered Devices (PDs) with up to 30W per port and a total power budget of 200W. Its plug-and-play design ensures simple setup without the need for complex software configuration. Key features include a VLAN function to enhance network security and reduce maintenance costs, and a Watchdog function that monitors the status of connected PoE devices, automatically resetting problem ports to restore power and connectivity if an abnormality is detected. The Extend mode allows for long-distance power and data transmission up to 250 meters, providing flexibility for device placement in areas without direct power outlets.



Figure 1: Front view of the Cudy FS1018PS1 16 Port PoE+ Switch, showing the 16 PoE ports, 2 Gigabit uplink ports, and 1 SFP port.

## SETUP AND INSTALLATION

The Cudy FS1018PS1 switch is designed for plug-and-play operation, requiring no complex software configuration. Follow these steps for initial setup:

1. **Unpack the Switch:** Carefully remove the switch and all accessories from the packaging.
2. **Power Connection:** Connect the provided power cord to the switch's power input and then to a standard AC power outlet. The power LED indicator on the switch should illuminate.
3. **Network Connections:**
  - Connect your network devices (e.g., IP cameras, wireless access points) that support PoE to any of the 16 10/100Mbps PoE+ ports (ports 1-16) using standard Ethernet cables. The switch will automatically detect and provide power to IEEE 802.3af/at compliant devices.
  - Connect your router, NVR, or main network backbone to the 2 Gigabit Ethernet uplink ports (G17, G18) or the SFP port (G19) using appropriate Ethernet or fiber optic cables.
4. **Verify Connections:** Check the LED indicators for each connected port. A solid green or amber light typically indicates a successful link and activity.

# FS1018PS1

## 16 Bağlantı Noktalı 10/100M PoE+ Anahtar

200 Watt  
POE Bütçesi

2 Gigabit  
Ethernet

1 SFP  
Yuvası



Figure 2: Illustrates the simple plug-and-play setup, showing a hand connecting an Ethernet cable to the switch.



Figure 3: Top-down view of the Cudy FS1018PS1 switch, highlighting the port layout.

## OPERATING MODES AND FEATURES

The Cudy FS1018PS1 offers several operating modes and intelligent features to optimize network performance and security:

- **Default Mode:** In this standard mode, all ports operate normally, allowing communication between all connected devices.
- **VLAN Mode:** When enabled, the VLAN function isolates ports 1-16 from each other, preventing broadcast storms and enhancing network security. Uplink ports (G17, G18, G19) can still communicate with all isolated ports. This mode is beneficial for preventing devices on one port from accessing devices on another, commonly used for surveillance networks.
- **Extend Mode:** This mode allows for extended power and data transmission distances up to 250 meters (820 feet) over standard Ethernet cables. This is particularly useful for deploying devices in remote locations where power outlets are not readily available. Note that in Extend mode, the data rate for ports 1-16 is typically reduced to 10Mbps to accommodate the longer distance.
- **PoE Watchdog:** The integrated Watchdog function continuously monitors the status of connected PoE-powered devices. If a device becomes unresponsive or an abnormality is detected, the switch will automatically reset the corresponding PoE port, cycling power to the device to restore its operation without manual intervention.
- **Power Budget:** The switch provides a total PoE power budget of 200 Watts, with up to 30 Watts available per port (IEEE 802.3at). It is backward compatible with IEEE 802.3af devices (15.4W).



### **Watchdog PoE cihazlarının kesintisiz çalışmasını garanti eder**

PoE watchdog, uzak ana bilgisayarların bağlantı durumunu sürekli olarak izler. Uzak PoE cihazında bir hata tespit edilirse, PoE anahtarı normal çalışmaya geri döndürmek için cihazı hemen yeniden başlatır.

Figure 4: Visual representation of VLAN Mode, showing how ports 1-8 are isolated from each other, enhancing network security.

# VLAN

1'den 8'e kadar portlar  
birbirinden izole edilmiştir



Figure 5: Depiction of the Watchdog function, which ensures continuous operation of PoE devices by automatically resetting unresponsive ports.

## MAINTENANCE

To ensure optimal performance and longevity of your Cudy FS1018PS1 switch, consider the following maintenance guidelines:

- **Environmental Conditions:** Operate the switch within its specified temperature and humidity ranges. Avoid exposing it to direct sunlight, excessive heat, or moisture.
- **Ventilation:** Ensure that the ventilation openings on the switch are not blocked. Maintain adequate airflow around the device to prevent overheating.
- **Cleaning:** Periodically clean the exterior of the switch with a soft, dry cloth. Do not use liquid or aerosol cleaners.
- **Cable Management:** Keep network cables neatly organized to prevent tangles and accidental disconnections.
- **Firmware Updates:** Check the Cudy official website periodically for any available firmware updates. While this switch is plug-and-play, firmware updates can sometimes provide performance improvements or bug fixes.

## TROUBLESHOOTING

If you encounter issues with your Cudy FS1018PS1 switch, refer to the following common troubleshooting tips:

Problem	Possible Cause	Solution
No Power LED indication	Power cord not connected or power outlet issue.	Ensure the power cord is securely connected to the switch and a working power outlet. Try a different outlet.
Device not receiving PoE power	Device is not PoE compliant, cable issue, or power budget exceeded.	<ul style="list-style-type: none"><li>• Verify the device is IEEE 802.3af/at compliant.</li><li>• Check the Ethernet cable for damage and ensure it's securely connected.</li><li>• Ensure the total power consumption of all connected PoE devices does not exceed the 200W budget.</li><li>• The PoE Watchdog function may have reset the port; wait a moment or try reconnecting.</li></ul>
No network connectivity	Cable issue, incorrect port connection, or VLAN mode enabled.	<ul style="list-style-type: none"><li>• Check all Ethernet cables for secure connections and damage.</li><li>• Ensure uplink ports (G17, G18, G19) are connected to your main network.</li><li>• If VLAN mode is enabled, devices on ports 1-16 cannot communicate with each other directly. Ensure your network configuration accounts for this.</li><li>• If using Extend mode, ensure the connected device supports the reduced 10Mbps speed.</li></ul>
Slow network speed	Cable quality, Extend mode enabled, or network congestion.	<ul style="list-style-type: none"><li>• Use high-quality Ethernet cables (Cat5e or Cat6).</li><li>• If Extend mode is enabled, the speed for ports 1-16 is limited to 10Mbps. Disable Extend mode if higher speeds are required for shorter distances.</li><li>• Check for network congestion or issues with connected devices.</li></ul>

## SPECIFICATIONS

Feature	Detail
Model Number	FS1018PS1
Ports	16 x 10/100Mbps PoE+ Ports, 2 x Gigabit Ethernet Uplink Ports, 1 x SFP Port
PoE Standard	IEEE 802.3af/at
Max PoE Power Per Port	30W
Total PoE Power Budget	200W
Data Transfer Rate	10/100Mbps (PoE ports), 1000Mbps (Gigabit uplink ports)
Extend Mode Distance	Up to 250 meters (820 feet) at 10Mbps

Feature	Detail
Features	VLAN Mode, Extend Mode, PoE Watchdog, Plug & Play, Port-Power-Prioritization
Material	Metal Casing
Dimensions (L x W x H)	37.5 x 29 x 8.5 cm (approx. 14.76 x 11.42 x 3.35 inches)
Weight	1 kg (approx. 2.2 lbs)
MTBF	> 50000 hours
Electrostatic Standard	Contact 6KV, Air 8KV
Manufacturer	Shenzhen Cudy Technology Co., Ltd.

## WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official Cudy website or contact Cudy customer service directly. Keep your purchase receipt for warranty claims.

**Cudy Official Website:** [www.cudy.com](http://www.cudy.com)

For further assistance, you may also contact your local distributor or reseller.